

Normally atmospheric,
but may change clinically

Assumed to be the
same as P_{aCO_2}

$$P_{\text{AO}_2} = P_{\text{IO}_2} - \frac{P_{\text{aCO}_2}}{R}$$

$$R = \frac{V_{\text{CO}_2}}{V_{\text{O}_2}} = 0.8$$